

Problems Concerning the Immunity From Noise in Communication  
Systems Realizing Signal Reception "As a Whole"

108-13-6 1/4

with the case of the detector scheme developed by Vagner. In the part the new system is described. On the basis of the investigation carried out the author conceived the idea to make use simultaneously both of the ideal method of signal reception as well as of the optimal code. When using an optimal orthogonal code it is necessary that the peak performance of the transmitter be a multiple of the average performance. This may be avoided if a connection is established with the aid of an orthogonal dual code. At the reception end a special device, such as a transformer of the form of the signal can be used. The function of this device is the transformation of signals of the optimal code from a coordinate system in which the signal coordinates are expressed by dual impulses of the same amplitude and with inverse signs, into another coordinate system in which the signal coordinates, with the exception of one, are all equal to zero. The principle of the work of this scheme is demonstrated on the basis of a concrete example. The transmitting device can be easily constructed on the basis of a signal-regenerator and a re-transformer. It is one of the advantages of the scheme described that the memory is

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Problems Concerning the Immunity From Noise in Communication  
Systems Realizing Signal Reception "As a Whole"

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of simple construction and that its volume is only half of that of the classical ideal reception apparatus. The system is moreover, promising also because some of the optimal codes are a combination of the optimal orthogonal code. Work was supervised by Professor A.A.Kharkovich, a corresponding member of the Academy of Sciences of the Ukrainian SSR. There are 4 figures, 3 tables, and 7 references, 4 of which are Soviet

SUBMITTED:

November 15, 1956 (initially) and February 24, 1958 (after revision)

1. Communication systems--Signal to noise ratio  
systems--Theory

Card 4/4

MESHKOVSKIY, K. A.

6(0) PHASE I BOOK EXPLOITATION 304/2792

Aradatsiya nauk SSSR. Laboratoriya sistey peredachi informatsii  
Problemy peredachi informatsii, vyp. 2 (Problems of Information  
Transfer, No. 2) Moscow, Izd-vo AN SSSR, 1959. 99 p. Krieta  
all inserted. 2,000 copies printed.

Mt. of Publishing House: Ye. E. Vinichenko; Tech. Ed.: Yu.  
G. G. Editorial Board: A. A. Dvorkin (Resp. Ed.), V. N.  
Kuznetsov, I. A. Orlov, V. M. Roginskiy, and V. D. Solomonov.

PURPOSE: This collection of articles may be useful to engineers  
engaged in the design of wire communication systems.

COVERAGE: The authors discuss the theory of transmission of infor-  
mation and describe the methods used in transmission. They consider  
attenuation of a two-wire line and cable impedance and discuss  
problems of coding, decoding and predicting communication sig-  
nals. They also consider statistical analysis of information  
signals. No personalities are mentioned.

ANAL. Ya. G. The Least Error and the Best Method of Transmitting  
Stationary Information With Linear Coding and Decoding for the  
Case of Gaussian Communication Channels  
The author derives a functional expressing the mean-square  
error of transmission and obtains the best method of transmit-  
ting information, with linear coding and decoding, by Gaussian  
communication channels. There are 3 references, all Soviet  
(including 1 translation).

Kuznetsov, I. A. Some Problems of Prediction of Communication  
Signals  
The author discusses problems of constructing circuits for  
signal prediction and analyzes their operation under near-  
actual operating conditions. He also presents an example of  
extrapolating a speech signal. There are 11 references: 6  
Soviet (including 1 translation) and 5 English.

Meshkovskiy, K. A. Some Problems of the Theory of Coding  
and Decoding of Codes  
The author discusses the principle of constructing, analyzing  
and comparing of codes. There are 5 references: 3 Soviet and  
2 English.

Gerasimov, V. A. Methods of Using Punched-card Computing Machines  
for Statistical Information Analysis  
The author shows the advantage of punched-card computing ma-  
chines over other types of computers for statistical analysis  
of information. He also discusses methods of using these ma-  
chines. There are 3 references, all Soviet.

Lebedev, D. I. Device for Printing Images on Punched Tape  
The author describes a device for printing images on punched  
tape. The device is used in the study of statistics of tele-  
vision information. It converts a continuous signal obtained  
in scanning a motion picture into a sequence of binary num-  
bers. There are 2 references, both Soviet.

Lebedev, D. I., and V. A. Gerasimov. Statistical Analysis of Three-  
Letter Combinations of Russian Text  
The authors present methods and results of a study of fre-  
quency of three-letter combinations of a Russian text and de-  
termine the rate of transmission of telegraph information.  
There are 3 references: 1 Soviet and 2 English.

Solomonov, V. D. Errors in the Synthesis of Characteristics  
The author presents a theoretical proof of the possibility  
of synthesizing characteristics and analyzes the error of  
synthesis by means of a delay-line system. There are 5  
references: 3 Soviet and 2 English.

Tsypkin, G. I. Some Problems in the Operation of a Time Equalizer  
The author derives an expression for determining delay distortion  
of a time equalizer from the pulse characteristics of the com-  
munication channel and describes the nature of equalization  
distortions. He also discusses deviations of the attenuation  
of an equalizer operating in the frequency spectrum. There are 9  
references: 3 Soviet and 6 English.

MESHKOVSKIY, K.A.

Questions on the theory of coding. Probl. pered. inform. no. 2:  
57-64 '59. (MIRA 12:11)  
(Information theory)

MESHKOUSKIY, K.A.

SOV/24-59-3-32/33

AUTHOR: None Given

TITLE: Conference on Problems of Statistical Coding  
PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Inzheneriya i avtomatika, 1959, Nr 3, pp 191-192 (USSR)

ABSTRACT: This Conference was held on April 16-17, 1959, in Moscow. The report contains little more than the titles of the papers and the names of the authors.

V. A. Garman and M. Ye. Kirillov, "Coding sequences of two symbols by means of codes with separating signs" (a discussion of the effectiveness of coding by Shannon's method).  
M. L. Blokh, "Transmission of a binary sequence by means of a uniform code" (with reference to sequences that form a simple Markov sequence).  
D. S. Lebedev, "Statistical coding by transmitting the positions (coordinates) of rare symbols".  
M. Ye. Kirillov, "Use of multi-program codes for statistical coding".  
D. S. Lebedev, "Statistical concordance in the presence of strong probability relations between elements".  
M. L. Blokh, "Sequential coding" (a use of a simple code in a repetitive coding procedure until the length of the coded sequence ceases to become any shorter).

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V. A. Garman, M. Ye. Kirillov and D. S. Lebedev, "An experimental study of the statistical aspects of information sources" (a study of frequency distributions of various types of communications).  
M. Ye. Kirillov, "Variable delay in statistical coding systems".  
V. A. Garman, "Transmission of facsimile data by statistical coding".  
V. A. Garman, "A simple system for partial statistical concordance in which the lengths of signal symbols are transformed".  
M. Ye. Kirillov, "Statistical coding for use in conditions of low noise level".  
D. S. Lebedev, "Statistically noise-stable coding".  
K. A. Meshkovskiy, "Method of constructing an optimal binary code".  
V. A. Garman, "Method of constructing an optimal binary code".  
M. L. Blokh, "Codes with elements whose lengths differ".

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MESHKOVSKIY, K.A.

Statistical interference rejecting coding. Probl.pered.  
inform. no.5:87-94 '60. (MIRA 13:7)  
(Information theory)

8982

S/106/60/000/011/008/010  
A055/A033

6.9500

AUTHOR: Meshkovskiy, K.A.

TITLE: On Some Classes of Ternary Codes

PERIODICAL: Elektrosvyaz', 1960, No. 11, pp. 62 - 70

TEXT: Only non-binary noiseproof codes are examined in the present article, i.e., codes with a basis  $m \geq 2$ . The author recalls the three fundamental principles underlying the construction of noiseproof codes, already set forth by him in two of his previous articles (Elektrosvyaz', No. 8, 1957 and Problemy peredachi informatsii, No. 2, 1959). These principles are:

1) - The signals of the code must be arranged so that the probabilities of the correct reception of signals should be equal or, in the worst case, differ only slightly. 2) - The signals of the code must be arranged so that the optimum condition is achieved. 3) - The number of the signals nearest to the given one should approach the maximum. These principles were established for the case where all the signals are characterized by the same energy, i.e., where they have the same length ( $\sqrt{nP_{cp}} = \text{constant}$ ). [Abstractor's note: the context does not allow me to state with certainty what the origi-

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A055/A033

# On Some Classes of Ternary Codes

nal subscript  $c_p$  stands for, most probably it means "average". The easiest way to satisfy this condition (from the theoretical point of view) is to demand that each combination should contain a constant number of co-ordinates with a determined fraction of the total energy. Defining by  $a$  the smallest among the possible values of the co-ordinates different from zero, and by  $x_{i-1}$  and  $x_i$  any two other values the least different from one another, the three following cases are possible:

$$\begin{aligned} |x_i - x_{i-1}| &< |a| & (1) \\ |x_i - x_{i-1}| &= |a| & (1') \\ |x_i - x_{i-1}| &> |a| & (1'') \end{aligned}$$

The author examines only cases (1') and (1''), and shows that case (1') is to be preferred to case (1'') from the view point of satisfying the third of the fundamental principles. Therefore, his further reasoning refers to this case only. The author finally arrives at ternary codes characterized by the following parameters:

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On Some Classes of Ternary Codes

$$n = 2k, N = \frac{n!}{\frac{n!}{2^k} \cdot \frac{n!}{2^k}} = C_{2k}^k 2^k \quad (5)$$

$$m = 3, d_{\min} = 2 \sqrt{P_{cp}, k = 1, 2, 3 \dots}$$

These ternary codes are manifestly superior (as regards the number of combinations) to the highest binary code, i.e., to that binary code whose parameters are given by the functions.

$$\left. \begin{aligned} n, N &= 2^n \\ m &= 2, d_{\min} = 2 \sqrt{P_{cp}} \end{aligned} \right\} \quad (6)$$

This superiority, though obvious, is confirmed mathematically by the author. In his further analysis of ternary codes, the author resorts to the Chabauty estimate (Comptes Rendus, 236, 15, 1953) and to the corresponding works of Kharkevich (Elektrosvyaz', No. 8, 1957), and develops another estimate of the

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AO55/AO33

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number of non-overlapping spherical segments for certain  $n$  and for strictly determined aperture-angles. A comparative investigation of the results derived from this estimate leads the author to the conclusion that a ternary code must exist, still superior to those analysed by him (in comparison with the binary code with the same minimum distance). Such a ternary code, however, is not known, as yet, to the author. In the last part of his article, the author develops several other ternary codes, two of which have already been analyzed by him (Elektrosvyaz', No. 8, 1957) and by Gilbert (BSTJ, vol. 31, No. 3, 1952). These codes are also superior to the highest binary codes. But, as to noiseproof feature, these codes (anyhow the latter two codes) are inferior to the ternary codes whose parameters are determined by the functions (5). This is confirmed by comparing all these codes with the ideal code, such as it had been developed by Gilbert. There are 2 figures, 3 tables and 9 references: 5 Soviet and 4 non-Soviet.

SUBMITTED: August 3, 1959.

Card 4/4

YEGOROVA, I.V.; IKONNIKOVA, T.V.; MEL'GUNOV, N.M.; MESHKOVSKIY, V.K.

Features of d.c. power transmission to systems not fed by local  
electric power plants. Izv. NIPT no. 8:111-133 '61. (MIRA 15:7)  
(Electric power distribution--Direct current)

MESHKUOTENE, E.A.; PLAVINA, I.Z.

Sensitometric characteristics of the latent electrophotographic image on zinc oxide layers. Zhur.nauch.i prikl.fot.i kin. '7  
no.5:380-381 S-O '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut elektrografii, Vil'nyus.  
(Lithuania--Xerography) (Photographic sensitometry)

MESHMAN, A., inzh.-mekhanik; LEYKIN, M., gornyy inzh.

Some flaws in stonecutting machinery. Okhr.truda i sots.strakh.  
no.1:82-84 Ja '59. (MIRA 12:2)  
(Crimea--Stonecutting--Hygienic aspects)

STARCHIKOV, A.V., inzh.; MESHMAN, A.N., inzh.

The SM-518 machine for working high-strength sawed limestone  
deposits. Stroim. 5 no.8:30-31 Ag '59. (MIRA 12:12)  
(Quarries and quarrying--Equipment and supplies)  
(Limestone)

LEYKIN, M., nauchnyy sotrudnik, gornyy inzh.; MESHMAN, A., inzh.-mekhanik;  
YAKHNOVICH, D.

From the experience of subsurface exploitation of limestone deposits.  
Okh. truda i sots. strakh. no.6:79 Je '59. (MIRA 12:10)

1. ~~KF~~ NIISMII (for Leykin). 2. Nachal'nik otdela novoy tekhniki i  
tekhnologii ~~KF~~ NIISMII (for Meshman). 3. Promyshlennno-sanitarnyy  
vrach oblastnoy sanepidstantsii, Simferopol' (for Yakhnovich).  
(Limestone) (Mining engineering)

MESHMAN, A.N., inzh.; LEYKIN, M.G., inzh.

Designs of stonecutting machines. Stroi. i dor. mashinostr. 4  
no.11:36-38 N '59 (MLA 13:3)  
(Quarries and quarrying- Equipment and supplies)



MESHMAN, A.N.

Portable instrument for the nondestructive determination of the  
strength of building materials. Zav.lab. no.11:1393-1394 '59.  
(MIRA 13:4)

1. Zrymskiy filial nauchno-issledovatel'skogo instituta stroitel' -  
nykh materialov i izdeliy.  
(Building materials -- Testing)

MESHMAN, A., inzh.

The KM-4 stonecutting machine. Sel'.stroil. 14 no.12:19  
(MIRA 13:4)

D '59.

(Quarries and quarrying--Equipment and supplies)

LEYKIN, M.G., inzh.; MAKAROV, V.L., inzh.; MESHMAN, A.N., inzh.

Performance testing of the SM-580A stonecutting machine. Stroi.  
1 dor. mashinostr. 5 no.4:26-27 Ap '60. (MIRA 13:9)  
(Quarries and quarrying--Equipment and supplies)

MESHMAN, A.N., inzh.

Review of "Stonecutting machines." Stroi. i dor. mashinostr. 5  
no.5:38-39 My '60. (MIRA 14:4)  
(Quarries and quarrying—Equipment and supplies)

MESHMAN, A.N., inzh.; STARCHIKOV, A.V., inzh.

The new KM-4 high-stepped stonecutting machine. Mekh.1 avtom.  
proizv. 14 no.1:51 Ja '60. (MIRA 13:5)  
(Stonecutting--Equipment and supplies)

DROZDOV, K., inzh.; WESHMAN, A., inzh.

Interfarm cement plant. Sel'.stroï. 15 no.8:15  
Ag '60. (MIRA 13:8)  
(Simferopol' region--Cement plants)  
(Collective farms--Interfarm cooperation)

MESHMAN, M.D.; MUSHINSKIY, Ye.D.; TIKHOMIROVA, N.I.

Treatment of trichocephaliasis by diathermy. Med.paraz. i paraz.  
bol. 27 no.1:111 Ja-F '58. (MIRA 11:4)

1. Iz parazitologicheskogo otdela Simferopol'skoy gorodskoy sanitarno-  
epidemiologicheskoy stantsii.  
(NEMATODA) (DIATHERMY)

LEYKIN, M.G., inzh.; MESEMAN, M.G., inzh.; STARICHKOV, A.V., inzh.

Mechanization of building-stone quarries. Mekh. stroi. 17  
no.9:18-22 S '60. (MIRA 13:9)

(Quarries and quarrying—Equipment and supplies)



ALEKSEYEVA, G.T. [deceased]; MESHMAN, V., student; RADIOSTINA, A., studentka

Study of the functional rebuilding of the synaptic formations in heterogenous anastomosis of motor secretory nerves. Trudy 1-go MMI 11:25-36 '61. (MIRA 15:5)

1. Laboratoriya obshchey fiziologii tsentral'noy nervnoy sistemy (zav. - prof. P.K. Anokhin) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR, Moskva.

(SALIVARY GLANDS--INNERVATION)

(PHRENIC NERVE--SURGERY)

(NERVES, FACIAL--SURGERY)

MESHNYAKOV, N.

Knowledge for students. Prof.-tekh.obr. 19 no.2:26 F '62.

(MIRA 15:2)

1. Pomoshchnik direktora po kul'turno-vospitatel'noy rabote  
tekhnicheskogo uchilishcha No.4, g. Novosibirsk.  
(Aesthetics--Study and teaching)

Р. СТАХАНОВИЧ, П. П.

- 4 345 МЕЛН ОЛЕГ, П. П. - Мой опыт сохранения сложного инструмента.  
(Стахановцы завода из Франции). В сб: Опыт новатор в машиностроении  
Куйбышев, 1948, с. 34-35.

SO: Letopis' zhurnal'nykh Staty, Vol. 17, 1948.

S/056/62/043/006/008/067  
B184/B102

AUTHORS: Balalayev, V. A., Dzhelepov, B. S., Medvedev, A. I.,  
Meshter, A., Uchevatkin, I. F.

TITLE: Refinement of the information on the  $0^+ \rightarrow 0^+$  transition  
in  $\text{Ce}^{140}$

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,  
no. 6(12), 1962, 2019-2020

TEXT: The  $\text{Pr}^{140}$  conversion electron spectrum was measured with a high-  
resolution  $\beta$ -spectrometer. As a result, more accurate data on the  
 $0^+ \rightarrow 0^+$  transition in  $\text{Ce}^{140}$  were obtained: energy:  $1902 \pm 3$  kev,  
 $(K/L)_{1902} = 7.40 \pm 0.34$ . These values are well consistent with those  
obtained in earlier measurements and with the theoretical results.  
 $MIL = 0.27 \pm 0.03$ ;  $(K+L+M)_{1597/\beta^+} \sim 1\%$ ;  $(K+L+M)_{1902/\beta^+} \sim 0.1\%$ . There are  
1 figure and 1 table.

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Refinement of the information...

S/056/62/043/006/008/067  
B184/B102

ASSOCIATION: Vsesoyuznyy institut metrologii (All-Union Institute of  
Metrology)

SUBMITTED: June 30, 1961

Card 2/2

L 14489-65 EWT(m) DIAAP/AFWL/ASD(a)-5/SSD/ASD(f)-2/ASD(m)-3/ESD(gs)/ESD(t)  
 S/0048/64/028/010/1704/1710  
 ACCESSION NR: AP4048642

AUTHOR: Balalayev, V.A.; Voinova, N.A.; Dzhelepov, B.S.; Meshtor, A.; Shestopalova, S.A.

TITLE: New data on the conversion electron spectrum of  $Ta^{182}$  in the energy region above 820 keV /Report, Fourteenth Annual Conference on Nuclear Spectroscopy held in Tbilisi 14-22 Feb 1964/

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v. 28, no. 10, 1964, 1704-1710

TOPIC: nuclear physics, beta spectrum, electron conversion, nuclear spectroscopy, tantalum

ABSTRACT: The conversion electron spectrum of 115 day tantalum 182 was investigated with a double  $\pi/2$  focusing  $\beta$ -spectrometer described elsewhere by one of the authors (S.A. Shestopalova, Izv. AN SSSR, Ser. fiz. 25, 1302, 1961). The measurements were undertaken in order to record the spectrum at energies above 1220 keV, where it has not previously been adequately investigated. The source was a tantalum film vacuum evaporated onto an aluminum backing. It was activated with thermal neutrons and was examined four months later. Thirty eight conversion lines with energies from 822 to 1387 keV were detected and identified; 20 of these had not previously been reported.

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ACCESSION NR: AP4048642

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The observed lines and their relative intensities are tabulated, and the data are also presented graphically with the statistical errors shown. The relative intensities are compared with those obtained by V.S.Gvozdev et al. (Izv.AN SSSR, Ser.fiz. 24,1444,1960), S.S.Vasilenko et al. (Izv.AN SSSR, Ser.fiz.25,51,1961), L.N.Kondrat'yev et al. (Preprint ITEF 494,1963), and S.V.Starodubtsev et al. (Zhur.eksp.i teor. fiz.45,921,1963). The present data, except for three lines, are in very good agreement with those of Kondrat'yev et al., and they are in satisfactory agreement with those of Gvozdev et al. and with those of Vasilenko et al. There are large unsystematic deviations from the relative intensities reported by Starodubtsev et al.

"The authors take the occasion to express their deep gratitude to coworkers G.S. Novikov of the LGU and V.V.Pavlov of the FTI for assistance in preparing the source, to coworkers A.I.Medvedev and L.I.Shalayeva of the VNIIM for assistance in the measurements, and to student-diplomatist A.B.Andrezon of the LPI for assistance in reducing the data." Orig.art.has: 9 figures and 1 table.

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2  
I 14489-65  
ACCESSION NR: AP4048642

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I. Mendeleeva (All-Union Scientific Research Institute of Metrology); Fiziko-tekhnicheskii institut im. A.F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences, SSSR)

ENCL: 00

SUBMITTED: 00

NR REF SOV: 008

OTHER: 003

SUB CODE: NP

3/3



ACCESSION NR: AP4031176

S/0056/64/046/004/1478/1478

AUTHOR: Balalayev, V. A.; Dzhelepov, B. S.; Medvedev, A. I.; Meshter, A.;  
Uchevatkin, I. F.

TITLE: Half-lives of ground and isomeric states of Lu-174

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1478

TOPIC TAGS: lutecium, half life, isomeric transition, conversion electron spectrum

ABSTRACT: Following an earlier measurement of the conversion electron spectrum of Lu<sup>173,174</sup> (Izv. AN SSSR ser. fiz. v. 27, 200, 1963), the measurements were repeated of the 994 and 1243 keV transitions in Lu<sup>174</sup> with the same source. In the 340 days elapsed between the two series of measurements, the 1243-keV K-line intensity had hardly changed (half-life greater than 800 days), but the 994 keV L-line intensity had decreased with a half-life of  $150 \pm 40$  days. To determine which of the half-lives corresponds to the ground state and which to the isomeric state, the half-life of the L-line intensity of the 59.1 and 67.1 keV transitions was estimated and found to be less than 200 days, which disagrees with the data of O. D. Kovrigin and G. D. Latyshhev (Spektrometria s dvoynoy fokusirovkoy, Izd. AN Kaz. SSR, Alma-Ata,

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ACCESSION NR: AP4031176

1962, pp 35—41) who estimated it to be 1300 days. The results of the investigations lead to the following conclusions: (1) the ground state of  $\text{Lu}^{174}$  decays with a half-life of 1300 days; (2) the isomeric state of  $\text{Lu}^{174}$  decays with a half-life of 140 days; (3) the 1243-keV transition is excited from the ground state; (4) the 994-keV transition is excited from the isomeric state. "The authors are grateful to S. A. Shestopalova for a discussion of the measurement results."

ASSOCIATION: Vsesoyuznyy institut metrologii im. D. I. Mende-eyeva (All-Union Institute of Metrology)

SUBMITTED: 26Jul63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: MP

NR REF SOV: 003

OTHER: 002

Card 2/2

BALALAYEV, V.A.; DZHELEPOV, B.S.; MESHTER, A.; SHESTOPALOVA, S.A.

Spectrum of conversion electrons from  $\text{Eu}^{146}$  in the energy range of  
750 -- 1550 Kev. Izv. AN SSSR. Ser. fiz. 29 no.7:1112-1120 JI '65.  
(MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im.  
D.I.Mendeleeva.

L 25761-66 JD/JG

ACC NO: AP6016393

SOURCE CODE: UR/0048/65/029/007/1112/1120

AUTHOR: Balalayev, V. A.; Duhelskov, B. S.; Kashter, A.; Shestopalova, S. A. 26  
B

ORG: All-Union Scientific Research Institute of Metrology im. D. I. Mendeleev  
(Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)

TITLE: Conversion electron spectrum of Eu sup 146 in the energy range 750-1550 kev

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 7, 1965, 1112-1120 27

TOPIC TAGS: europium, electron spectrum

ABSTRACT: This article is a complete presentation of results from an experiment reported on earlier in part at the VII Congress at Dubna in 1964. A segment of the spectrum of Eu<sup>146</sup> conversion electrons was studied in the energy range from 750 to 1550 kev. The article is primarily made up of graphs and tables representing the data from the experiment with a brief description of the setup and some discussion of the results. It was concluded that a) all the conversion lines observed by other researchers were observed in the present experiment; b) 25 new transitions were discovered; c) all the transition energies in this range were more precisely determined. The authors thank Zh. T. Zhelev for his assistance in the receipt of the sources; L. N. Moskvina for the cleansing of the preparations; and I. F. Uchevatkin, V. D. Vitman, A. I. Medvedev and L. A. Shalayeva for their assistance with the measurements. Orig. art. has: 8 figures and 1 table. [JPRS]

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001  
Card 1/1 CC 2

26654-66 EWT(1)/EWT(m) DIAAP/IJP(c) JD/JG/AT  
 ACC NR: AP6017120 SOURCE CODE: UR/0048/65/029/012/2250/2254  
 AUTHOR: Balalayev, V. A.; Dzhelapov, B. S.; Medvedev, A. I.; Mechter, A. <sup>50</sup><sub>B</sub>  
 ORG: All-Union Scientific Research Institute of Metrology im. D. I. Mendeleev  
(Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii); Radium Institute im.  
V. G. Khlopin, AN SSSR (Radiyevyy institut AN SSSR) 27  
 TITLE: New data on the conversion electron spectra of La sup 140 [This paper was  
presented at the 15th Annual Conference on Nuclear Spectroscopy and the Structure of  
the Atomic Nucleus, held in Minsk from 25 January to 2 February 1965.  
 SOURCE: AN SSSR. Investiya. Seriya fizicheskaya, v. 29, no. 12, 1965, 2250-2254  
 TOPIC TAGS: electron spectrum, lanthanum, spectrometer, electron energy  
 ABSTRACT: The purpose of this paper is to refine the data on the conversion electrons  
 of La<sup>140</sup> at energies above 2.2 Mev. The authors use the 2 X 1 (2) beta spectrometer  
 of the All-Union Scientific Research Institute of Metrology. Conversion lines of  
 transitions both above and below 2200 keV are plotted in curves and tabulated. No  
 lines were observed in the range from 2530 to 2830 keV. The line K<sub>432</sub> was found to  
 differ from earlier results. No evidence of doublet structure of the line K<sub>1996</sub>,  
 claimed by Nakai and Hogg (Phys. Ref. vol. 128, p. 357 (1962)), was observed. The  
 authors thank L. N. Maslov for preparing the sources. Orig. art. has: 3 figures  
 and 2 tables. [JPRS]  
 SUB CODE: 20 / SUM DATE: none / ORIG REF: 008 / OTH REF: 002  
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8 no.3-4:220-221 May-Aug 56.

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(COLLAPSE THERAPY.  
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C. Ostoić); Institut za tuberkulozu, Golnik (Direktor: doc.  
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1. Scientific collaborator of the Meteorological Institute, University of Belgrade, Yugoslavia.  
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KOSAREV, O., shturman; GVIL'DIS, B., bortmekhanik (Irkutsk); KORNEV;  
LOZOVSKIY; KUZ'MIN, starshiy inzhener-ekonomist; MESILOV, Yu.,  
aviatekhnik; FROLENKO, N. (Novosibirsk); KHALIULLIN, R.  
(Verkhniye Kigi, Bashkirskoy ASSR); ZOSIMOV, V. (g. Klistey,  
Bryanskoy oblasti)

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1. Obshchestvennyy inspektor po bezopasnosti poletov,  
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MESINEV, G.G., inon.

Possibilities of preheated casting in the production of precast  
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TATARINOV, A.S.; TULYAKOV, A.P., inzh.

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(MIRA 18:10)

1. Nachal'nik Serpukhovskogo domostroitel'nogo kombinata (for Appel').
2. Glavnyy inzh. Serpukhovskogo domostroitel'nogo kombinata (for Tilevich).
3. Zamestitel' direktora TSentral'nogo nauchno-issledovatel'skogo i proyektnogo instituta tipovogo i eksperimental'nogo proyektirovaniya zhilishcha (for Monfred).
4. Rukovoditel' laboratorii TSentral'nogo nauchno-issledovatel'skogo i proyektnogo instituta tipovogo i eksperimental'nogo proyektirovaniya zhilishcha (for Mikhanskiy).
5. Rukovoditel' gruppy TSentral'nogo nauchno-issledovatel'skogo i proyektnogo instituta tipovogo i eksperimental'nogo proyektirovaniya zhilishcha (for Mesinev).
6. Nachal'nik KPD-2 Industroyproyekta (for Tatarinov).

115

MESINEV M. S.

THE RELATION BETWEEN THE RESULTS OF THE DETERMINATION OF THE HEMOGLOBIN CONTENT OF BLOOD AND THE DURATION OF THE TREATMENT OF BLOOD WITH HYDROCHLORIC ACID IN THE SALIT HEMOMETER. M. S. Mesinev. *Lab. Prakt.* (U. S. S. R.) 16, No. 8, 10-12 (1941).—To exactly 5 ml. of 0.1 N HCl in a test tube (10-12 mm. diam., 10-12 cm. high) add 0.2 ml. of blood. Wash the pipet several times with the HCl soln. and mix the liquid carefully. After 5 min. transfer 0.52 ml. of the HCl-hematin soln. to a Salit test tube and immediately add water to match the standard. After 5 min. again measure out 0.52 ml. of the soln. and det. the hemoglobin (I) content. If the I values obtained after 5 min. are taken as the starting point, then the increases of I after 10, 15, 20, 25, 30 and 40 min. are, resp.: 4, 7, 10, 12, 13 and 14%. On the basis of exptl. results M. constructed a table by which any value from 10 to 109 obtained after diag. after any length of time from 5 to 60 min. can be corrected to 5, 10, 15 min., etc. After 60 min. the values approach the normal values of the O capacity of blood (85-110 in man, 75-100 in woman). M. proposes to designate as I the values obtained by comparing the colors 10 min. after taking the blood. All other values should be corrected to 10 min. W. R. Henn

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Feld'd. i akush. 24 no.3:34 Mr '59.

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(MICROSCOPY)

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 Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959.  
 247 p. 2,200 copies printed.  
 Sponsoring Agency: Akademiya nauk SSSR. Matematicheskii institut.  
 Rech. Ed.: G.M. Shvachenko; Editorial Board: A.A. Abramov, V.D.  
 Boltyanskiy, A.M. Vasil'yev, B.V. Medvedev, A.D. Myznits, S.M.  
 Shkol'skiy (Resp. Ed.), A.G. Postnikov, Yu. V. Prokhorov, K.A.  
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**PURPOSE:** This book is intended for mathematicians and physicists.  
**COVERAGE:** The book is Volume IV of the Transactions of the Third All-  
 Union Mathematical Conference, held in June and July 1956. The  
 book is divided into two main parts. The first part contains sum-  
 maries of the papers presented by Soviet scientists at the Con-  
 ference that were not included in the first two volumes. The  
 second part contains the text of reports submitted to the editor  
 by non-Soviet scientists. In those cases when the non-Soviet sci-  
 entist did not submit a copy of his paper to the editor, the title  
 of the paper is cited and, if the paper was printed in a previous  
 volume, reference is made to the appropriate volume. The papers,  
 which Soviet and non-Soviet, cover various topics in number theory,  
 algebra, differential equations, function theory, topology, geometrical  
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 history of mathematics.

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| Shvachenko, G.M. (Moscow). On the reduction of a system of<br>quasilinear equations to a single quasilinear equation                              | 43 |
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| Shvachenko, G.M. (Moscow). On the summing of multiple series and<br>Fourier integrals                                                             | 49 |
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MESKA, A.; [Affiliation not given.]

"Information Covering the Ways of Publishing Communications  
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Abstract: The author gives informat on on the means of publishing  
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M. P. P. L., A.V.

the following information is based on the results of the  
analysis of the material. The results of the analysis are  
as follows:

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MESKHI, A.V.

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1. Tbilisskiy nauchno-issledovatel'skiy gidroenergeticheskiy institut.  
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1. Tbilisskiy nauchno-issledovatel'skiy institut sooruzheniy i  
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MESKHI, K. G.: "Some limiting problems of an elastic anisotropic body."  
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FOR THE DEGREE OF CANDIDATE IN PHYSICOMATHEMATICAL SCIENCE)

SO.: Knizhnaya letopis' No. 15, Moscow

34571

S/044/62/000/001/07/061  
C111/C444

24.4200

AUTHOR: Meskhi, K.G.

TITLE: An investigation of the boundary value problems of the statics of a plane anisotropic elastic body

PERIODICAL: Referativnyy zhurnal. Matematika, no. 1, 1962. 30.  
abstract 1 B 145. (Tr. Vychisl. tsentra. AN Gruz SSR, 1960,  
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TEXT: One considers some questions of the solvability of the elastic equations for the displacements and some properties of these solutions for an arbitrary anisotropic body. It is assumed that the boundary of the domain is a Lyapunov curve. Considered is the first and second boundary value problem, where on the boundary the displacements or the tensions are given. The solution is considered to be regular, if it is twice continuously differentiable in the domain and satisfies the given boundary conditions in every boundary point. In the case of an infinite domain it is supposed that

$$r \cdot u(r) = o(1); \quad r \frac{\partial u}{\partial r} = o(1)$$

Card 1/2

An investigation of the boundary ...

S/044/62/000/001/017/061  
C111/C444

holds for  $r \rightarrow \infty$ . By energetic methods one proves the uniqueness theorems which are characteristic for problems of the theory of elasticity. Like in the paper of V.D. Kupradze and M.I. Bacheleyshvili (R Zh Mat, 1973, 1955) fundamental solutions of zero kind (first and second) of first kind and of second kind are introduced. One investigates the boundary limit properties of the corresponding potentials and constructs on this base Fredholm and singular integral equations which are equivalent to the given boundary value problems. The investigation of these integral equations leads to the theorems of existence characteristic for the linear theory of elasticity.

[Abstracter's note : Complete translation.]

Card 2/2

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GAPRINDASHVILI, David Solomonovich; GOGAVA, Levan  
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Effect of hypoventilation of the lungs on basal metabolism  
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korrespondentom Akademii nauk Gruzinskoy SSR P.M. Gedvanishvili.  
(RESPIRATION) (BASAL METABOLISM) (HYPERTHYROIDISM)

TSIVILEVA, Ye.I.; SAKHOKIYA, M.I.; MESKHI, M.I.

Additional loading of rotary kilns from the firing end.  
(MIRA 15:7)  
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nauk, red.; KADZHAYA, Ye.A., red.izd-va; TODUA, A.R., tekhred.

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